

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER,**

the specification of which

is attached hereto

OR

was filed on December 20, 2000 as United States Application No. 09/745,004 or PCT

International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.

None.			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed

			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

60/172,863	12/20/1999
Application Number(s)	Filing Date (MM/DD/YYYY)

Application Number(s)	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application (37 C.F.R. § 1.63(d)).

None		
Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. I also appoint the following registered attorney(s) to represent me before all competent International Authorities in connection with any and all international applications filed by me with an appropriate receiving office claiming priority to the U.S. application. I also appoint the following registered attorney(s) to make or receive payment on my behalf in connection with the filing of such international applications.

Customer Number 20792

Send correspondence to: **Sorojini J. Biswas**
Myers Bigel Sibley & Sajovec
Post Office Box 37428
Raleigh, NC 27627

Direct telephone calls to: **Sorojini J. Biswas**
(919) 854-1400

Facsimile: **(919) 854-1401**

Full name of first joint inventor: **W. David Wilson**

Inventor's
Signature: W. David Wilson Date: 10/9/01

Residence: **Atlanta, Georgia**

Citizenship: **United States**

Post Office Address: **1669 Dyson Drive
Atlanta, Georgia 30307**

Attorney Docket No. 5470-271

Full name of second joint inventor: **David W. Boykin**

Inventor's
Signature: David W. Boykin Date: 10/8/07

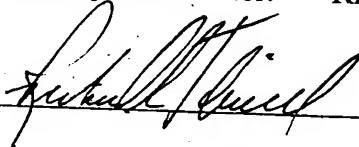
Residence: **Atlanta, Georgia**

Citizenship: **United States**

Post Office Address: **1369 Springdale Road, NE
Atlanta, Georgia**

Attorney Docket No. 5470-271

Full name of third joint inventor: **Richard R. Tidwell**

Inventor's
Signature:  Date: 6/13/61

Residence: **Pittsboro, North Carolina**

Citizenship: **United States**

Post Office Address: **390 W.R. Clark Road
Pittsboro, North Carolina 27312**

10-26-2001

ASSIGNMENT RECO.



Patents Only

To the Honorable Commissioner of Patents and Trademarks:

101887507

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Richard R. Tidwell

2. Name and address of receiving party(ies):

The University of North Carolina at Chapel Hill
 308 Bynum Hall, Campus Box 4105
 Chapel Hill, North Carolina

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

 Assignment Merger Security Agreement Change of Name Other _____

Execution Date: June 13, 2001

Additional name(s) & address(es) attached? Yes No

4. Application Serial No. 09/745,004, Filed December 20, 2000

If this document is being filed together with a new application, the execution date of the application is: 4/05

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Julie H. Richardson
 Myers Bigel Sibley & Sajovec
 P. O. Box 37428
 Raleigh NC 27627

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

 Enclosed Authorized to be charged to deposit account

8. Deposit account number: 50-0220

DO NOT USE THIS SPACE

9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Julie H. Richardson, #40,142

Name of Person Signing

Signature

October 11, 2001

Date

Total number of pages including cover sheet, attachments and document: 3

10/25/2001 BYRNE 00000021 09745004
 01 FC:501

40.00 00

PATENT
 REEL: 012276 FRAME: 0597

ASSIGNMENT

THIS ASSIGNMENT, made by me, **Richard R. Tidwell**, a citizen of the United States of America, residing at 390 W.R. Clark Road, Pittsboro, State of North Carolina 27312;

WITNESSETH: That,

WHEREAS, I am one of the joint inventors of certain new and useful improvements in **NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER** for which an application for United States Letters Patent was filed in the United States Patent and Trademark Office on **December 20, 2000**, under Serial No. **09/745,004**;

WHEREAS, **The University of North Carolina at Chapel Hill**, an educational institution chartered under the laws of the State of North Carolina having a principal operation at 308 Bynum Hall, Campus Box 4105, City of Chapel Hill, State of North Carolina, hereinafter referred to as assignee, is desirous of acquiring my entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

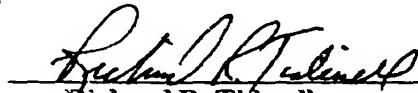
NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, my entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not be made.

I hereby request that said Letters Patent be issued in accordance with this assignment.

I further covenant and agree to bind my heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to

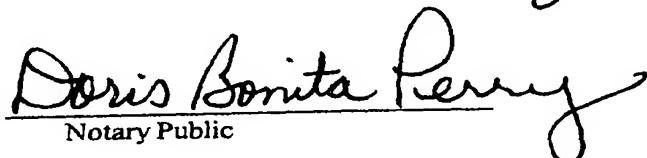
execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 13 day of June, 2001.


(SEAL)
Richard R. Tidwell

STATE OF NORTH CAROLINA)
)
) ss:
COUNTY OF ORANGE)

Before me personally appeared **Richard R. Tidwell**, to me known to be the person described in and who executed the foregoing instrument; and he acknowledged to me that he executed the same for the purpose therein stated, this 13⁺ day of June, 2001.


Notary Public

SEAL

My Commission Expires: June 28, 2005

Page 2 of 2

RECORDED: 10/15/2001

PATENT
REEL: 012276 FRAME: 0599

ASSIGNMENT RE

10-26-2001



EET Patents Only

To the Honorable Com..... 101887508

Please record the attached original documents or copy thereof.

10-15-01

Date: October 11, 2001
Attorney Docket No. 5470-271

1. Name of conveying party(ies):

W. David Wilson
David W. Boykin

2. Name and address of receiving party(ies):

Georgia State University
38 Peachtree Center Avenue
Suite 741 GCB
Atlanta, Georgia

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment
 Merger
 Security Agreement
 Change of Name
 Other _____

Execution Date: Wilson - October 9, 2001
Boykin - October 8, 2001

Additional name(s) & address(es) attached? Yes No

4. Application Serial No. 09/745,004, Filed December 20, 2000

If this document is being filed together with a new application, the execution date of the application
is: 406

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence
concerning document should be mailed:Julie H. Richardson
Myers Bigel Sibley & Sajovec
P. O. Box 37428
Raleigh NC 27627

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

 Enclosed Authorized to be charged to deposit account

8. Deposit account number: 50-0220

DO NOT USE THIS SPACE

9. Statement and signature

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.*

Julie H. Richardson, #40,142

Name of Person Signing

Signature

October 11, 2001

Date

Total number of pages including cover sheet, attachments and document: 4

10/25/2001 DBYME 00000022 09745004
01 FC:581

40.00 US

PATENT
REEL: 012276 FRAME: 0378

ASSIGNMENT

THIS ASSIGNMENT, made by us, **W. David Wilson**, citizen of the United States of America, residing at 1669 Dyson Drive, Atlanta Georgia 30307; and **David W. Boykin**, citizen of the United States of America, residing at 1369 Springdale Road, NE, Atlanta, Georgia 30315;

WITNESSETH: That,

WHEREAS, we are two of the joint inventors of certain new and useful improvements in **NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER** for which an application for United States Letters Patent was filed in the United States Patent and Trademark Office on **December 20, 2000**, under Serial No. **09/745,004**;

WHEREAS, **Georgia State University**, an educational institution having a principal place of business at 38 Peachtree Center Avenue, Suite 741 GCB, City of Atlanta, State of Georgia, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives, and assigns promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 9th day of October, 2001.


(SEAL)
W. David Wilson

STATE OF GEORGIA

)
) ss:

COUNTY OF)

Before me personally appeared W. David Wilson, to me known to be the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same for the purposes therein stated, this 9th day of October, 2001.


Notary Public

SEAL

My Commission Expires: 9/13/04

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this _____ day
of _____, 2001.

David W. Boykin (SEAL)
David W. Boykin

STATE OF GEORGIA)
COUNTY OF) ss:

Before me personally appeared **David W. Boykin**, to me known to be the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same for the purposes therein stated, this 8th day of October, 2001.

Henry X Heppard
Notary Public

SEAL

Notary Public, Cobb County, Georgia
My Commission Expires June 27, 2003

My Commission Expires: _____

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Holly A. Wolfe
Date

Holly A. Wolfe
May 22, 2002

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Wilson, et al.

Group Art Unit: 1621

Serial No.: 09/745,004

Examiner: Not yet known

Filed: December 20, 2000

Docket No.: 421/60/16/2
(previously 5470-271)

For: NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER

STATEMENT UNDER 37 C.F.R. § 3.73(b)
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION

Commissioner of Patents
Washington, D.C. 20231

Sir:

1. The assignee(s) of the entire right, title and interest of co-inventor Richard R. Tidwell, hereby seeks to take action in the U.S. Patent and Trademark Office (PTO) in this matter.

IDENTIFICATION OF ASSIGNEE

2. University of North Carolina at Chapel Hill
Name of assignee

University

Type of assignee, e.g., corporation, partnership, university, government agency, etc.

PERSON AUTHORIZED TO SIGN

3. W. Mark Crowell
(type name of person authorized to sign on behalf of assignee)

Associate Vice Chancellor and Director,

Office of Technology Development

Title of person authorized to sign

I, the person signing below, state that I am empowered to sign this statement on behalf of the assignee.

BASIS OF ASSIGNEE'S INTEREST

Ownership by the assignee is established as follows:

4.

a. An assignment from a co-inventor of the matter identified above, which was recorded in the PTO on October 15, 2001 at Reel/Frame 012276/0597.

b. An assignment (document) separately being submitted for recordal herewith.

AND/OR

5. A chain of title from the inventor(s) to the current assignee as shown below:

a. From: _____
Name of inventor(s)

To: _____
Recorded in PTO:
Reel _____, Frame _____

b. From: _____
Name of inventor(s)

To: _____
Recorded in PTO:
Reel _____, Frame _____

c. From: _____
Name of inventor(s)

To: _____
Recorded in PTO:
Reel _____, Frame _____

(check item below, and add details, if applicable)

Additional documents in the chain of title are listed in the attached Supplemental Sheet.

COPIES OF DOCUMENTS IN CHAIN OF TITLE

(complete this item, if copies are being sent)

Copies of the assignment(s) or other document(s) in the chain of title are attached as follows:

4 a b
 5 a b c

W. Mark Crowell
(Signature of authorized person)

W. Mark Crowell
(type or print name of authorized person)

Associate Vice Chancellor and Director,
Office of Technology Development
Title of authorized person

Customer No./Bar Code:



25297
PATENT TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Holly A. Wolfe

Date

Holly A. Wolfe
May 22, 2002

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Wilson, et al.

Group Art Unit: 1621

Serial No.: 09/745,004

Examiner: Not yet known

Filed: December 20, 2000

Docket No.: 421/60/16/2
(previously 5470-271)

For: NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER

STATEMENT UNDER 37 C.F.R. § 3.73(b)
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION

Commissioner of Patents
Washington, D.C. 20231

Sir:

1. The assignee(s) of the entire right, title and interest of co-inventors W. David Wilson and David W. Boykin, hereby seeks to take action in the U.S. Patent and Trademark Office (PTO) in this matter.

IDENTIFICATION OF ASSIGNEE

2. Georgia State University Research Foundation, Inc.

Name of assignee

University

Type of assignee, e.g., corporation, partnership, university, government agency, etc.

PERSON AUTHORIZED TO SIGN

3. Dr. Charles F. Louis

(type name of person authorized to sign on behalf of assignee)

Chairman

Title of person authorized to sign

I, the person signing below, state that I am empowered to sign this statement on behalf of the assignee.

BASIS OF ASSIGNEE'S INTEREST

Ownership by the assignee is established as follows:

4.

a. An assignment from a co-inventor of the matter identified above, which was sent to the PTO on October 11, 2001 for recordation.

b. An assignment (document) separately being submitted for recordal herewith.

AND/OR

5. A chain of title from the inventor(s) to the current assignee as shown below:

a. From: _____
Name of inventor(s)

To: _____
Recorded in PTO:
Reel _____, Frame _____

b. From: _____
Name of inventor(s)

To: _____
Recorded in PTO:
Reel _____, Frame _____

c. From: _____
Name of inventor(s)

To: _____
Recorded in PTO:
Reel _____, Frame _____

(check item below, and add details, if applicable)

Additional documents in the chain of title are listed in the attached Supplemental Sheet.

COPIES OF DOCUMENTS IN CHAIN OF TITLE

(complete this item, if copies are being sent)

Copies of the assignment(s) or other document(s) in the chain of title are attached as follows:

4 a b
 5 a b c



(Signature of authorized person)

Dr. Charles F. Louis
(type or print name of authorized person)

Chairman
Title of authorized person

Customer No./Bar Code:



25297

PATENT TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Holly A. Wolfe

Holly A. Wolfe
May 22, 2002

Date

PATENT

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For: NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

Commissioner of Patents
Washington, D.C. 20231

Sir:

As assignee of record of the entire interest of co-inventor Richard R. Tidwell of the above identified

application,

patent,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked, and

NEW POWER OF ATTORNEY

the following attorney(s) and/or agent(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Attorney(s) and/or agent(s) associated with Customer No. 25297.

SEND CORRESPONDENCE TO:

Arles A. Taylor, Jr.
Jenkins & Wilson, P.A.
Suite 1400 University Tower
3100 Tower Boulevard
Durham, North Carolina 27707
Telephone: (919) 493-8000
Facsimile: (919) 419-0383

DIRECT TELEPHONE CALLS TO:

Arles A. Taylor, Jr. at (919) 493-8000

Assignment:

Recorded in PTO on: 10/15/01 at Reel/Frame: 012276/0597
 Recorded herewith

ASSIGNEE STATEMENT

Attached to this power is a "STATEMENT UNDER 37 C.F.R. 3.73(b)."

Date 4/25/02

Mark Crowell
Signature

W. Mark Crowell
(type or print name of person authorized to
sign on behalf of assignee)

Associate Vice Chancellor and Director,
Office of Technology Development
Title

Customer No./Bar Code:



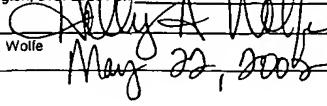
25297

PATENT TRADEMARK OFFICE

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Holly A. Wolfe

Date


May 22, 2003

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Wilson, et al.

Group Art Unit: 1621

Serial No.: 09/745,004

Examiner: Not yet known

Filed: December 20, 2000

Docket No.: 421/60/16/2
(previously 5470-271)

For: NOVEL COMPOUNDS THAT EXHIBIT SPECIFIC MOLECULAR RECOGNITION OF MIXED NUCLEIC ACID SEQUENCES AND BIND IN THE DNA MINOR GROOVE AS A DIMER

* * * * *

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

Commissioner of Patents
Washington, D.C. 20231

Sir:

As assignee of record of the entire interest of co-inventors W. David Wilson and David W. Boykin of the above identified

application,

patent,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked, and

NEW POWER OF ATTORNEY

the following attorney(s) and/or agent(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

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SEND CORRESPONDENCE TO:

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Suite 1400 University Tower
3100 Tower Boulevard
Durham, North Carolina 27707
Telephone: (919) 493-8000
Facsimile: (919) 419-0383

DIRECT TELEPHONE CALLS TO:

Arles A. Taylor, Jr. at (919) 493-8000

Assignment:

Recorded in PTO on: _____
 Filed in PTO for Recordation on October 11, 2001.

ASSIGNEE STATEMENT

Attached to this power is a "STATEMENT UNDER 37 C.F.R. 3.73(b)."

Date 5/9/02



Signature

Dr. Charles F. Louis
(type or print name of person authorized to
sign on behalf of assignee)

Chairman
Title

Customer No./Bar Code:



25297

PATENT TRADEMARK OFFICE